

# Curriculum Vitae JOHN E. HAVEL

## OFFICE

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## EDUCATION

Ph.D., Zoology, University of Wisconsin-Madison, 1984  
M.A., Biology, Drake University, 1980  
B.A., Biology, Drake University, Des Moines, Iowa, 1973

## PROFESSIONAL EMPLOYMENT

Center for Limnology, University of Wisconsin-Madison  
Interim Director (summer), Trout Lake Research Station, 2011, 2012  
Visiting Scientist (2009-10 sabbatical, summers 2011-**present**)

Department of Biology, Missouri State University  
Professor Emeritus, 2016-**present**  
Professor, 2000-2016 (retired 2/2016)  
Founder and Director, Bull Shoals Field Station, 1996-2002  
Associate Professor, 1994-2000  
Assistant Professor, 1989-1994

Department of Biological Sciences, University of Windsor, Windsor, ON  
Postdoctoral Fellow, 1987-1989

Department of Biology, Central Michigan University, Mt. Pleasant, MI  
Visiting Assistant Professor, 1985-1987

Department of Biology, University of West Florida, Pensacola, FL  
Visiting Assistant Professor, 1984-85

Department of Zoology, University of Wisconsin, Madison, WI  
Research Associate, Summers 1984, 1985  
Research Assistant, 1982-84  
Teaching Assistant, 1980-82

Department of Health Sciences, Des Moines Area Community College, IA  
Instructor (part time), 1979-80

Department of Biology, Loras College, Dubuque, IA  
Instructor, 1979

Department of Biology, Drake University, Des Moines, IA

Teaching Assistant, 1977-80

### **OTHER PROFESSIONAL EXPERIENCE**

Associate Editor, *Hydrobiologia*, 2009-present

Honorary Fellow, Center for Limnology, University of Wisconsin-Madison, 2013-present

Interim Director, Univ. Wisconsin Trout Lake Research Station, summers 2011, 2012

Associate Editor, *Functional and Applied Limnology*, 2009-2011

Visiting Scientist (sabbatical): University of Wisconsin-Madison, 2009-2010

Associate Editor, *Ecology* (Ecological Society of America), 2001-2004

Visiting Scientist, Max Planck Institute, Plön, Germany: fall 1998, summer 1999

Visiting Scientist, University of Guelph, Ontario: summer 1993, fall 1995

Visiting Instructor, Central Michigan University Biological Station: summers 1989, 1991, 1992

### **PROFESSIONAL SOCIETIES**

American Society of Limnology and Oceanography

Ecological Society of America

Society for Freshwater Science (formerly North American Benthological Society)

Sigma Xi, the Scientific Research Society

Societas Internationalis Limnologiae

### **FELLOWSHIPS, HONORS, AND AWARDS**

Professor Salary Incentive Plan (1<sup>st</sup> group of 20 professors), MSU, 2014

College Award in Research (CNAS), MSU, 2013

Travel (full expenses), Springer: editorial board meetings in Taiwan (2013), Belgium (2015)

Atwood Research and Teaching Award, MSU, 2012

Travel award (full expenses), Brazilian Society of Limnology, 2011

Outstanding Graduate Thesis Advisor, MSU, 2011

Sabbatical leave, MSU, 2009-10

International Travel Award, MSU, 2008

University Award in Research, MSU, 2006

University Award in Teaching, MSU, 2005

Summer Faculty Fellowship, MSU, 2004

University Award in Research, MSU, 2002

Sabbatical leave, MSU, Fall 2002

Max Planck Fellowship, Plön, Germany, 1998-99

International Travel Award, MSU, 1998

Summer Faculty Fellowship, MSU, 1997

University Award in Research, MSU, 1996

College Award in Research (CNAS), MSU, 1995

Sabbatical leave, MSU, Fall 1995

International Scientific Exchange Fellowship, NSERC (Canada), 1993

Summer Faculty Fellowship, MSU, 1993

College Award in Teaching (CNAS), MSU, 1992

Summer Faculty Fellowship, MSU, 1990

## RESEARCH

### CURRENT RESEARCH INTERESTS

Aquatic invasive species: dispersal, impacts, and control  
Zooplankton and benthic ecology

### GRANTS AND CONTRACTS AWARDED (total external awards \$1,287,212)

2014	Wisconsin Department of Natural Resources, to UW (Knight and Havel) Trophic interactions and the efficacy of milfoil weevils in biocontrol of Eurasian water-milfoil in northern lakes	\$ 14,169
2013	Faculty research grant, MSU Trophic interactions and the efficacy of milfoil weevils in biocontrol of Eurasian water-milfoil in northern lakes	\$ 7,493
2012	Wisconsin Department of Natural Resources, to UW (Knight and Havel) A field test on the effectiveness of milfoil weevil for controlling Eurasian watermilfoil in northern lakes (4-year project, 24,323 to MSU) (Revised in December 2013 to total \$133,860)	\$191,275
2011	Wisconsin Department of Natural Resources, to UW (Knight and Havel) Tolerance of air exposure and its impact on dispersal of aquatic invasive species (2-year project, 19,672 to MSU)	\$ 41,040
2007	Faculty research grant, MSU Food resources for migrating zooplankton: signature fatty acids as tracers of diet	\$ 7,444
2007	Environmental Protection Agency (through Illinois Natl. Hist. Survey) Planktonic indicators of reference conditions in great rivers: analyses for The EPA EMAP program (year 2).	\$ 50,167
2006	Environmental Protection Agency (through Illinois Natl. Hist. Survey) Planktonic indicators of reference conditions in great rivers: analyses for The EPA EMAP program.	\$ 12,334
2006	Environmental Protection Agency (through University of Louisville) Analyses of zooplankton from the Ohio River	\$ 28,600
2004	Environmental Protection Agency (through Illinois Natl. Hist. Survey) Analyses of zooplankton samples from the Missouri River and its main-stem reservoirs (EMAP-Great River Ecosystems)	\$170,000
2002	Missouri Department of Natural Resources (Havel and Rhodes) Spatial distribution and dynamics of algae blooms in Table Rock Lake, James River arm, year 2	27,780

2002	Missouri Department of Natural Resources (Pavlowsky, Havel, and Biagioni) James River total maximum daily load monitoring, year 2	85,585
2002	Faculty Research Grant, MSU Biological invasions: prevalence, dispersal, and impacts on communities	1,240
2002	Environmental Protection Agency (Havel and Greene) Environmental education workshop at the Bull Shoals Field Station ( <b>Teaching</b> )	7,917
2001	Missouri Department of Natural Resources (Havel and Rhodes) Spatial distribution and dynamics of algae blooms in Table Rock Lake, James River arm	22,203
2001	Missouri Department of Natural Resources (Pavlowsky, Havel, and Biagioni) James River total maximum daily load monitoring	105,483
2001	Missouri Department of Conservation Benthic invertebrates of Lake Taneycomo	10,350
2001	US Geological Survey (Missouri Water Resources) (Havel and Rhodes) Eutrophication of the upper White River lakes: technology transfer	12,000
2000	Missouri Department of Conservation Benthic invertebrates of Lake Taneycomo	10,350
1999	US Geological Survey (Missouri Water Resources) (Havel and Rhodes) Eutrophication of the White River lakes: data synthesis and the dynamics of plankton communities	21,835
1999	Missouri Department of Conservation Benthic invertebrates of Lake Taneycomo	10,845
1999	Faculty Development, MSU (Gutierrez, Havel, and Rhodes) Developing the water resources capstone curriculum ( <b>Teaching</b> )	3,245
1999	Faculty Research Grant, MSU Vertical migration by <i>Daphnia</i> and its role in explaining invasion success	3,090
1998	Missouri Department of Conservation Benthic invertebrates of Lake Taneycomo	10,765
1997	Missouri Department of Conservation Diversity, abundance, and production of zooplankton in	35,448

	Missouri River wetlands	
1997	Missouri Department of Conservation Benthic invertebrates of Lake Taneycomo	10,394
1997	Faculty Research Grant, MSU An internet resource for expanding identification of biodiversity	5,750
1997	NSF-Research Experiences for Undergraduates (DEB 97-41913) Invasion of an exotic cladoceran into North American reservoirs	5,000
1997	National Science Foundation (O'Brien, Smith, & Havel) (DEB 96-75374) Invasion of an exotic cladoceran into North American reservoirs	45,000
1996	NSF-Research Experiences for Undergraduates (DEB 96-41390) Invasion of an exotic cladoceran into North American reservoirs	5,000
1996	Missouri Department of Conservation Diversity, abundance, and production of zooplankton in Missouri River wetlands	32,924
1996	U.S. Geological Survey Benthic invertebrates in riparian wetlands	10,646
1995	National Sciences and Engineering Research Council of Canada (Boulding, Havel, Hebert, Padilla, Sprules, and Yodzis) Evolutionary ecology of exotic species introductions into the Great Lakes	110,000
1994	Missouri Department of Conservation Diversity, abundance, and production of zooplankton in Missouri River wetlands	62,550
1994	MSU Mini-grant (Biagioni, Mantei, and Havel) New atomic absorption spectrometer for Chemistry, GGP, and Biology <b>(Teaching)</b>	22,000
1993	National Science Foundation (Havel and O'Brien) (DEB 93-17869) Invasion of an exotic cladoceran into North American reservoirs	120,000
1993	Faculty Research Grant, MSU Population biology of <i>Ceriodaphnia</i> and its implication for toxicity testing	930
1992	US Geological Survey (Missouri Water Resources) Chemical and biological assays of heavy metal contamination in streams	12,071
1992	U.S. Geological Survey	1,625

	Population dynamics of zooplankton in a Kansas City reservoir	
1992	Faculty Research Grant, MSU Invasion of reservoirs by a <i>Daphnia</i> species new to North America	2,015
1991	US Geological Survey (Missouri Water Resources) Chemical and biological assays of heavy metal contamination in streams	12,369
1991	Coors 2000 Pure Water Fund Ostracodes as models for bioassays	500
1991	Martin Marietta, Inc. Population dynamics of meiofauna in experimental ponds	3,750
1990	Faculty Research Grant, MSU Defenses of freshwater ostracodes against predation	3,354
1990	National Science Foundation (Heywood, Havel, and Barnekow) (USE-90-51579) The Biology computer lab ( <b>Teaching</b> )	29,509
1989	Faculty Research Grant, MSU Clonal diversity in asexual ostracodes	5,495

## GRADUATE THESES

Doctoral Thesis. 1984. Phenotypic plasticity and predation risk in two *Daphnia* species. University of Wisconsin, Madison, WI.

Master's Thesis. 1980. Feeding of naupliar and adult carnivorous cyclopoids (Crustacea: Copepoda). Drake University, Des Moines, IA.

## PUBLICATIONS (REFEREED)

Havel, J.E., S.E. Knight, and J.R. Miazga. 2017. Abundance of milfoil weevil in northern lakes: potential secondary impacts from herbicide control of Eurasian watermilfoil. *Lake and Reservoir Management* \_\_\_\_\_. DOI 10.1080/10402381.2017.1334250

Havel, J.E., S.E. Knight, and K.A. Maxson. 2017. A field test on the effectiveness of milfoil weevil for controlling Eurasian watermilfoil. *Hydrobiologia* 800: 81-97. DOI:10.1007/s10750-017-3142-2

Papes, M., J.E. Havel, and M.J. Vander Zanden. 2016. Using maximum entropy to predict the potential distribution of an invasive freshwater snail. *Freshwater Biology* 61: 457-471. (DOI/10.1111/fwb.12719)

- Heth, R.L., D.E. Bowles, and J.E. Havel. 2016. Potential impacts of stream crossing traffic on macroinvertebrate communities in a Missouri Ozark River. *River Research and Applications* 32: 925–934. (DOI: 10.1002/rra.2898)
- Havel, J.E., K. Kovalenko, S.M. Thomaz, S. Amalfitano, L.B. Kats. 2015. Aquatic invasive species: challenges for the future. *Hydrobiologia* 750: 147-170. (DOI 10.1007/s10750-014-2166-0) [Invited review paper]
- Thomaz, S.M., K.E. Kovalenko, J.E. Havel, L.B. Kats. 2015. Aquatic invasive species: general trends in the literature and introduction to the special issue. *Hydrobiologia* 746: 1-12. (DOI 10.1007/s10750-014-2150-8) Note: we co-edited this 444-page special issue on aquatic invasive species.
- Bruckerhoff, L.A., J.E. Havel, and S. Knight. 2015. Survival of invasive aquatic plants after air exposure and implications for dispersal by recreational boats. *Hydrobiologia* 746: 113-121. (DOI 10.1007/s10750-014-1947-9)
- Havel, J.E., L.A. Bruckerhoff, M. Funkhouser, and A. Gemberling. 2014. Resistance to desiccation in aquatic invasive snails and implications for overland dispersal. *Hydrobiologia* 741: 89-100. (DOI: 10.1007/s10750-014-1839-z)
- Frisch D., J.E. Havel, and L.J. Weider. 2013. The invasion history of the exotic freshwater zooplankter *Daphnia lumholtzi* (Cladocera, Crustacea) in North America: a genetic analysis. *Biological Invasions* 15: 817-828. (DOI 10.1007/s10530-012-0329-3)
- Bukaveckas, P.A., A. Aufdenkampe, J.H. Chick, J.E. Havel, R. Schultz, T.R. Angradi, D.W. Bolgrien, T.M. Jicha, and D. Taylor. 2011. Phytoplankton abundance and their contribution to particulate organic matter in the Ohio, Upper Mississippi, and Missouri Rivers. *Aquatic Sciences* 73: 419-436.
- Havel, J.E. 2011. Survival of the exotic Chinese mystery snail (*Cipangopaludina chinensis malleata*) during air exposure and implications for overland dispersal by boats. *Hydrobiologia* 668: 195-202.
- Gray, E., S. Nunziata, J.W. Snodgrass, D.R. Ownby, and J.E. Havel. 2010. Predation on green frog eggs (*Rana clamitans*) by Ostracoda. *Copeia* 2010: 452-456.
- Chick, J.H., A.P. Levchuk, K.A. Medley, and J.E. Havel. 2010. Underestimation of rotifer abundance a much greater problem than previously appreciated. *Limnology and Oceanography Methods* 8: 79-87.
- Dickerson, K.D., K.A. Medley, and J.E. Havel. 2009. Spatial variation in zooplankton community structure is related to hydrologic flow units in the Missouri River, USA. *River Research and Applications* 25: 1-14.

- Havel, J.E., K.A. Medley, K.R. Dickerson, T.R. Angradi, D.W. Bolgrien, P.A. Bukaveckas, and T.M. Jicha. 2009. Effect of main-stem dams on zooplankton communities in the Missouri River (USA). *Hydrobiologia* 628: 121-135.
- Havel, J.E. 2009. Cladocera. Pages 611-622 in G. E. Likens, editor. *Encyclopedia of Inland Waters*. Elsevier, Oxford.
- Havel, J.E., and R.J. Rhodes. 2009. Spatial disconnection of plankton dynamics in an Ozark reservoir. *Lake and Reservoir Management* 25: 1-11.
- Soeken-Gittinger, L.A., J.A. Stoeckel, and J.E. Havel. 2009. Differing effects of suspended sediment on performance of native and exotic *Daphnia*. *Freshwater Biology* 54: 495-504.
- Medley, K.A., and J.E. Havel. 2007. Hydrology and local environment influences on zooplankton communities in floodplain ponds. *Wetlands* 27: 864-872.
- Havel, J.E., and J. Graham. 2006. Complementary population dynamics of exotic and native *Daphnia* in North American reservoir communities. *Archiv für Hydrobiologie* 167: 245-264.
- Havel, J.E., and W. Lampert. 2006. Habitat partitioning of native and exotic *Daphnia* in gradients of temperature and food: mesocosm experiments. *Freshwater Biology* 51: 487-498.
- Havel, J.E., and K.A. Medley. 2006. Biological invasions across spatial scales: intercontinental, regional, and local dispersal of cladoceran zooplankton. *Biological Invasions* 8: 459-473.
- Havel, J.E., J.B. Shurin, and J.R. Jones. 2005. Environmental limits to a rapidly spreading exotic cladoceran. *EcoScience* 12: 376-385.
- Havel, J.E., C. E. Lee, and J. Vander Zanden. 2005. Do reservoirs facilitate invasions into landscapes? *BioScience* 55: 518-525.
- Havel, J.E., and J.B. Shurin. 2004. Mechanisms, effects, and scales of dispersal in freshwater zooplankton: a synthesis. *Limnology and Oceanography* 49: 1229-1238.
- Havel, J.E., and K.R. Pattinson. 2004. Spatial distribution and seasonal dynamics of plankton in a terminal multiple-series reservoir. *Lake and Reservoir Management* 20: 14-26.
- Pattinson, K.R., J.E. Havel, and R.G. Rhodes. 2003. Invasibility of a reservoir to exotic *Daphnia lumholtzi*: Experimental assessment of diet selection and life history responses to Cyanobacteria. *Freshwater Biology* 48: 233-246. (with cover photo)
- Shurin, J.B., and J.E. Havel. 2002. Hydrologic connections as dispersal routes for the spread of the exotic cladoceran *Daphnia lumholtzi*. *Biological Invasions* 4: 431-439.



- Havel, J.E., J.B. Shurin, and J.R. Jones. 2002. Estimating dispersal from patterns of spread: Spatial and local control of lake invasions. *Ecology* 83: 3306-3318.
- Johnson, J.L., and J.E. Havel. 2001. Competition between exotic and native *Daphnia*: *In situ* experiments. *Journal of Plankton Research* 23: 373-387.
- Havel, J.E., and J. Stelzleni-Schwent. 2000. Zooplankton community structure: The role of dispersal. *Verhandlungen Internationale Vereinigung Limnologie* 27: 3264-3268.
- Havel, J.E., J.K. Colbourne, and P.D.N. Hebert. 2000. Reconstructing the history of intercontinental dispersal in *Daphnia lumholtzi* by the use of genetic markers. *Limnology and Oceanography* 45: 1414-1419.
- Shurin, J.B., J.E. Havel, M.A. Leibold, and B. Pinel-Alloul. 2000. Local and regional species richness: A scale-independent test for saturation. *Ecology* 81: 3062-3073.
- Havel, J.E., E.M. Eisenbacher, and A.A. Black. 2000. Diversity of crustacean zooplankton in riparian wetlands: Colonization and egg banks. *Aquatic Ecology* 34: 63-76.
- Galat, D.L., L. H. Frederickson, D. D. Humberg, K.J. Bataille, J.R. Bodie, J. Dohrenwend, G.T. Gelwicks, J. E. Havel, D.L. Helmers, J.B. Hooker, J.R. Jones, M. Knowlton, J. Kubisiak, J. Mazourek, A. McColpin, R.D. Semlitsch, and R.B. Renken. 1998. Natural and controlled flooding of channelized Missouri River wetlands: Complementary processes for restoring river-floodplain connectivity. *BioScience* 48: 721-733.
- Hurtubise, R.D., E.E. Little, and J.E. Havel. 1998. Methods for assessing the impacts of UV-B radiation on aquatic invertebrates. Pp. 31-44 in Little, E.E., A.J. DeLonay, and B.M. Greenburg (eds.) *Environmental toxicology and risk assessment*. Vol. 7. ASTM STP 1333, American Society of Testing and Materials, Philadelphia.
- Hurtubise, R.D., J.E. Havel, and E.E. Little. 1998. Effects of ultraviolet-B radiation on freshwater invertebrates: Experiments with a solar simulator. *Limnology and Oceanography* 43: 1082-1088.
- Havel, J.E., M.C. Barnhart, and J. Schnake Greene. 1997. Experimental investigations of water quality: The bioassay. *American Biology Teacher* 59: 349-352. (**Teaching**)
- Havel, J.E., W.R. Mabee, and J.R. Jones. 1995. Invasion of the exotic cladoceran *Daphnia lumholtzi* into North American reservoirs. *Canadian Journal of Fisheries and Aquatic Sciences* 52: 151-160.
- Havel, J.E., and B.L. Talbott. 1995. Life history characteristics of the freshwater ostracod *Cyprinotus incongruens* and their application to sediment toxicity tests. *Ecotoxicology* 4: 50-62.

- Chaplin, J.A., J.E. Havel, and P.D.N. Hebert. 1994. Sex and ostracodes. *Trends in Ecology and Evolution* 9: 435-439.
- Havel, J.E., and P.D.N. Hebert. 1993a. Clonal diversity in parthenogenetic ostracodes. Pages 353-368 in: McKenzie, K.G., and P.J. Jones (eds.). *Ostracoda in the Earth and Life Sciences*, Balkema Publishers, Rotterdam.
- Havel, J.E., and P.D.N. Hebert. 1993b. *Daphnia lumholtzi* from North America: Another exotic zooplankter. *Limnology and Oceanography* 38: 1837-1841.
- Havel, J.E., J. Link, and J. Niedzwiecki. 1993. Selective predation by *Lestes* sp. (Odonata, Lestidae) on littoral microcrustacea. *Freshwater Biology* 29: 47-58.
- Havel, J.E., P.D.N. Hebert, and L.D. Delorme. 1990a. Genetics of sexual Ostracoda from a low arctic site. *Journal of Evolutionary Biology* 3: 65-84.
- Havel, J.E., P.D.N. Hebert, and L.D. Delorme. 1990b. Genotypic diversity of asexual Ostracoda from a low arctic site. *Journal of Evolutionary Biology* 3: 391-410.
- Havel, J.E., and P.D.N. Hebert. 1989. Apomictic parthenogenesis and genotypic diversity in *Cypridopsis vidua* (Ostracoda, Cyprididae). *Heredity* 62: 383-392.
- Havel, J.E., C.C. Wilson, and P.D.N. Hebert. 1989. Reproductive investment and sex ratios in the viviparous onychophoran *Plicatoperipatus jamaicensis*. *Oikos* 56: 224-234.
- Dodson, S.I., and J.E. Havel. 1988. Prey response in *Daphnia*: Growth and life history. *Limnology and Oceanography* 33: 1276-1287.
- Havel, J.E. 1987. Predator-induced defenses: A review. Pages 263-278 in Kerfoot, W.C., and A. Sih. *Predation: Direct and indirect effects on aquatic communities*. University Press of New England, Hanover.
- Havel, J.E., and S.I. Dodson. 1987. Reproductive costs of *Chaoborus*-induced polymorphism in *Daphnia pulex*. *Hydrobiologia* 150: 273-281.
- Havel, J.E. 1985a. Predation of common invertebrate predators on long-and short-featured *Daphnia retrocurva*. *Hydrobiologia* 124: 141-149.
- Havel, J.E. 1985b. Cyclomorphosis of *Daphnia pulex* spined morphs. *Limnology and Oceanography* 30: 853-861.
- Havel, J.E., and S.I. Dodson. 1985. Environmental cues for cyclomorphosis in *Daphnia retrocurva*. *Freshwater Biology* 15: 469-478.
- Havel, J.E., and S.I. Dodson. 1984. *Chaoborus* predation on typical and spined morphs of *Daphnia pulex*: Behavioral observations. *Limnology and Oceanography* 29: 487-494.

## IN PREP

Havel, J.E. Chinese mystery snail dislodgement in flow and implications for population persistence in streams.

Havel, J.E., and D. Branstrator. Dispersal and spatial spread of two exotic cladocerans: a 20-year comparison of *Bythotrephes longimanus* and *Daphnia lumholtzi*.

## NON-REFEREED PAPERS AND FINAL REPORTS

Knight, S.E., and J.E. Havel. 2016. A field test on the effectiveness of milfoil weevil for controlling Eurasian watermilfoil in northern lakes. Final report to Wisconsin Department of Natural Resources (Project ACE 122-12). 105 pp.

Knight, S., and J.E. Havel. 2016. Trophic interactions and the efficacy of milfoil weevils in biocontrol of Eurasian water-milfoil in northern lakes. Final report to Wisconsin Department of Natural Resources (project AIRD-100-14). 137 pp. (K.A. Maxson thesis)

Knight, S.E., and J.E. Havel. 2014. Tolerance to air exposure and its impact on dispersal of aquatic invasive species. Final report to Wisconsin Department of Natural Resources (project AEPP-305-11). 48 pp.

Dumont, H.J., J.E. Havel, R. Gulati, and P. Spaak. 2011. Preface: a tribute to Stanley Dodson. *Hydrobiologia* 668: 1-2.

Havel, J.E. 2009. Stanley Ivan Dodson: a distinguished ecologist, naturalist, and teacher. *Hydrobiologia* 636: 1-6.

Havel, J.E. 2009. Obituary: Stanley I. Dodson, 1944-2009. (Published in L&O Bulletin and SIL News.)

Bukaveckas, P., J.E. Havel, and J.H. Thorp. 2007. *In Memoriam: Jeffrey D. Jack (1963-2007)*. (Published in NABS Bulletin and L&O Bulletin.)

Chick, J., J. Havel, J. Jack, P. Bukaveckas, and A.K. Aufdenkampe. 2006. Analyses of zooplankton, chlorophyll, and geochemistry samples for the EMAP Great River Ecosystems Project. US Environmental Protection Agency. 16 pp.

Havel, J.E., and R.G. Rhodes. 2004. Spatial distribution and dynamics of algae blooms in Table Rock Lake, James River arm. Final report to Missouri Department of Natural Resources, 30 pp.

- Pavlowsky, R., J.E. Havel, and R. Biagioni. 2002. James River total maximum daily load. Final report to Missouri Department of Natural Resources. 21 pp.
- Havel, J.E., and R.G. Rhodes. 2002. Eutrophication in the White River watershed: Technology transfer. Final report to Missouri Water Resources Research Center. 3 pp.
- Havel, J.E., and R.G. Rhodes. 2001. Eutrophication in the White River watershed: Data synthesis and dynamics of planktonic communities. Final report to Missouri Water Resources Research Center. 8 pp.
- O'Brien, W.J., V.H. Smith, and J.E. Havel. 1999. Invasion of an exotic cladoceran into North American reservoirs. Final report to the National Science Foundation (grant # DEB 96-15374). 6 pp.
- Havel, J.E., and D.M. Bethune. 1999. Diversity, abundance, and production of zooplankton in Missouri River wetlands. Final report to the Missouri Department of Conservation. 136 pp.
- Havel, J.E. 1997. Invasion of an exotic cladoceran into North American reservoirs. Final report to the National Science Foundation (grant # DEB 93-17869). 12 pp.
- Havel, J.E., and R.G. Schulz. 1993. Assessment of heavy metal pollution in Ozarks using the sediment quality triad. Proc. 3rd Annual Water Quality Conference: 48-71. University of Missouri, Columbia.
- Havel, J.E. 1993. Population dynamics of zooplankton in Harrisonville City Lake, Cass County, Missouri. Report to the U.S. Geological Survey. 9 pp.
- Rhodes, R.G., J.E. Havel, and C.C. Thompson. 1992. Well algae and their correlations with water chemistry. Proc. 2nd annual Water Quality Conference: 35-44. University of Missouri, Columbia.
- Havel, J.E. 1991. Population dynamics of meiofauna from experimental ponds: Responses to phenolics. Report to Martin Marietta, Inc. 16 pp.

#### **WEB SITES DESIGNED (\*webmaster)**

- Havel, J.E., K.A. Medley, and E. Dey\*. 2006. Rotifer diversity in large rivers. <http://biology.missouristate.edu/rotifer/>
- Havel, J.E., and E. Dey\*. 2004. Ostracode diversity. <http://biology.missouristate.edu/ostracods>
- Havel, J.E.\* 2003. Limnoreferences. <http://www.limnoreferences.missouristate.edu/> (restricted)
- Havel, J.E., and M.R. Dickerson\*. 2000. SMSU Bull Shoals Field Station: White River lakes database. <http://www.cnas.missouristate.edu/bullshoals/WhiteRiverBasin/whiteriver.htm> (\*former webmaster)

Havel, J.E., and M. Dickerson\*. 1999. SMSU Bull Shoals Field Station.  
<http://www.bullshoals.missouristate.edu/> (\*former webmaster)

Havel, J.E.\*. 2000. Aquatic biology. <<http://biology.missouristate.edu/aquatic/default.htm> >

Havel, J.E., R.G. Rhodes\*, E.M. Eisenbacher, and P. Ferguson. 1998. The zooplankton project: A gallery of photographs from species of the south-central United States. (revised 2005, with E. Dey\*) <http://www.cnas.missouristate.edu/zooplankton/default.htm>

### **CONTRIBUTED PAPERS AND ABSTRACTS**

186 presentations at meetings (1984-2015), 124 as co-author (mostly with students).

List available upon request.

### **INVITED SEMINARS**

Biological invasions: the challenges of containing and controlling aquatic invasive species

- Katholieke Universiteit, Leuven, BELGIUM (2015)
- Department of Biology, Missouri State University (2015)

People, plagues and pests: the challenges of containing and controlling exotic species

- CNAS Public Lecture Series (2013)
- Missouri University of Science and Technology, Department of Biology (2013)

Biological invasions: the roles of dispersal and invasibility

- Dartmouth College, Department of Biological Sciences (2012)
- Illinois State University, Department of Biology (2011)
- University of Georgia, Jones Environmental Center (2010)
- University of Minnesota-Duluth, Department of Biology (2010)
- University of Wisconsin, Department of Zoology (2009)

Freshwater invasions, dispersal, and the Chinese mystery snail

- Missouri State University, Department of Biology (2010)
- University of Wisconsin, Trout Lake Station (2010)
- University of Wisconsin, Center for Limnology (2010)

Modeling the colonization and spread of invasive species (2010)

- Kappa Mu Epsilon (math honor society), Dept. Mathematics, Missouri State University

Biological invasions: dispersal and integration into native aquatic communities

- Missouri State University, Department of Biology (2008)
- Eastern Illinois University, Department of Biology (2008)
- Auburn University, Department of Wildlife and Fisheries (2008)

Advances in aquatic ecology: invasions, rivers, and grazing snails

- Arkansas Tech University, Department of Biology (2007)

Biological invasions: the roles of dispersal and invasibility

- Missouri State University, Provost Research Forum (2006)
- Washington University, Tyson Biological Station (2006)
- University of Missouri, Department of Wildlife and Fisheries (2005)

Passive dispersal of freshwater invertebrates: mechanisms, effects, and scale

- Oklahoma State University, Department of Zoology (2003)
- Missouri State University, Department of Biology (2003)

Biological invasions of aquatic communities: why aren't zooplankton species cosmopolitan?

- University of Oklahoma, Department of Zoology (2002)
- University of Wisconsin, Center for Limnology (2002)
- University of Guelph, Department of Zoology (2002)
- University of Windsor, Department of Biological Sciences (2002)

Biological invasions: dispersal and impacts on native communities

- University of Missouri-Rolla, Department of Biology (2001)
- University of Kansas, Department of Ecology and Evolutionary Biology (2001)

Invasion of an exotic cladoceran into North America: dispersal and impacts on communities

- Missouri State University, Department of Biology (1999)
- Katholieke Universiteit, Leuven, BELGIUM (1998)
- Max Planck Institut für Limnologie, Plön, GERMANY (1998)

Invasion of an exotic cladoceran into North America

- University of Guelph, Great Lakes Exotics Working Group (1996)
- University of Windsor, Department of Biological Sciences (1995)
- University of Louisville, Department of Biology (1995)
- Murray State University, Department of Biology (1995)
- University of Oklahoma, Department of Zoology (1995)
- University of Arkansas, Department of Entomology (1994)
- Missouri State University, Department of Biology (1994)
- University of Missouri, School of Natural Resources (1993)
- University of Oklahoma, Department of Zoology (1993)
- University of Kansas, Department of Ecology and Systematics (1993)

Assessment of stream pollution by the sediment quality triad

- Missouri State University, College of Natural and Applied Sciences, (Sigma Xi Undergraduate Research Symposium, Plenary talk, 1994)
- Missouri Southern College, Department of Biology (Environmental Symposium, 1993)
- National Fisheries Contaminant Research Laboratory, Columbia, Missouri (1992)

Evolution of breeding systems in ostracodes

- Oak Ridge National Laboratory, Oak Ridge, Tennessee (1990)

- Missouri State University, Department of Biology (1989)
- University of Houston, Department of Biology (1989)

Ecology and genetics of low arctic ostracodes

- University of Maine-Farmington, Department of Biology (1988)
- University of Toronto-Erindale, Department of Zoology (1987)
- University of Windsor, Great Lakes Institute (1987)

Cyclomorphosis and predator defenses in *Daphnia pulex*

- St. Anselm College, Department of Biology (1986)
- Central Michigan University, Department of Biology, July 1985
- University of West Florida, Department of Biology, July 1984

Phenotypic plasticity and predation risk in *Daphnia*

- University of Wisconsin-Madison, Department of Zoology (1984)
- University of Windsor, Department of Biological Sciences (1984)

## **TEACHING (1989-present)**

### **COURSES TAUGHT**

#### Graduate

Advanced limnology (alternate years 1995-2014)

Recent advances in biology (BIO 628, readings): aquatic ecology (1994), biogeography (1996), biological invasions (1993, 1999, 2003), conservation biology (1991), ecological experiments (1992), environmental toxicology (1992), large rivers (2005), zooplankton ecology (1993, 2004, 2006), food webs (2009)

#### Graduate/senior undergraduate

Statistical methods for biologists (yearly, 1989-2015)

Advanced statistical methods for biologists (1994-1997)

Limnology (yearly, 1989-2015)

Population ecology (alternate years)

Stream ecology (alternate years) #

Water resources (alternate years)#

Wetlands ecology (on demand) #

Zooplankton ecology (1989, 1992; at CMU Biological Station)

#### Undergraduate general education capstone

Water Resources (2000-06, honors) #

#--new course proposal written and approved

### **TEXTBOOKS PUBLISHED (major revisions)**

Hampton\*, R.E., and J.E. Havel. 2013. Introductory biological statistics. Waveland Press. 3<sup>rd</sup> edition.

Hampton\*, R.E., and J.E. Havel. 2005. Introductory biological statistics. Waveland Press. 2<sup>nd</sup> edition. \* senior author deceased

### **LABORATORY MANUALS PUBLISHED**

Havel, J.E. 2016. Laboratory Exercises for Freshwater Ecology. Waveland Press. 179 p.

### **Recent self published**

Havel, J.E. 2013. Laboratory exercises for limnology (BIO 562/662). 131 p.

Havel, J.E. 2013. Laboratory exercises for stream ecology (BIO 509/609). 116 p.

Havel, J.E. 2013. Tutorial exercises for *Minitab* Statistical Software (BIO 550/650). 55 p.

### **GRADUATE STUDENTS (all thesis option)**

Kristopher Maxson (2013-16): Trophic interactions and the efficacy of weevils in biocontrol of Eurasian water-milfoil. (**Summer Research Fellowship**) MSU, 2016. Present position: Fisheries biologist, Illinois Natural History Survey, Havana.

Adrienne Gemberling (2013-15): Interactions among invasive species in lakes: a mesocosm experiment. (**Summer Research Fellowship, Sigma Xi Grant in Aid, National Park Service grant, Graduate Interdisciplinary Forum best talk award**), MSU, 2015. Present position: Water resources coordinator, Clearwater Conservancy, State College, Pennsylvania

Jason Wolf (2006-2014, with extended leave): *Daphnia* diel vertical migration and chemical cues from fish predators. Master of Science (Biology), MSU, 2014. Present position: Environmental Specialist, Missouri Department of Natural Resources.

Elizabeth Glidewell (2011-13): Adaptation of an invading cladoceran to temperature. (**Summer Research Fellowship**) Master of Science (Biology), MSU, 2013. Present position: Research Technician, MSU.

Whitney Spence Kelley (2010-16, with extended leave): Impacts of size-selective predation by crayfish on invasive and native snails. (**Summer Research Fellowship**) MSU, 2016. Present position: Instructor, Ozarks Community College, Springfield, MO.

Kari Reynolds (2010-12): Cyanobacteria abundance and toxin production in a drinking water reservoir. Master of Science (Biology), MSU, 2012. Present position: Environmental Specialist, City of Springfield.

Sarah Davis (2008-2010): Effects of toxic metals on growth and recognition of predator-cues in freshwater snails. (**Summer Research Fellowship**) Master of Science (Biology), MSU, 2010. Present position: Stormwater Technician, City of Springfield, Missouri.



- Rachel Heth (2008-2010): Impacts of road-crossing disturbance on stream macroinvertebrate communities. (**MSU Distinguished thesis award 1<sup>st</sup> runner up, 2010**) Master of Science (Biology), MSU, 2010. Present position: Water Quality Biologist, Missouri Department of Natural Resources (Ph.D. 2015, University of Missouri)
- Garrett Clark (2007-2009): Distribution, growth, and competitive impacts of the exotic Chinese mystery snail (*Bellamya chinensis*) in the James River, Missouri. Master of Science (Biology), MSU, 2009. (**Summer Research Fellowship**) Present position: Biology Teacher, Monett High School.
- Tammy Yelden Trantham (2007-2009): Fatty acids as biomarkers of plankton trophic structure in Table Rock Lake, Missouri. Co-advised by Richard Biagioni (Chemistry). Master of Science (Biology), MSU, 2009. (**Summer Research Fellowship**) Present position: Executive Director of Missouri Smallflows Organization and Projects Assistant for Project WET and Project Learning Tree, Missouri State University.
- Beth Dalrymple (2006): Wetland ecology (Beth switched advisors)
- Sam Jones (2005-2009): Inter-basin transfer of invasive crayfish via bait bucket dumping. Master of Science (Biology), MSU, 2009. Present position: Biology Instructor, State Fair Community College.
- Angela Bandy Coats (2005-2007): Top-down control of algal biomass in streams: the role of snails in the Upper White River Basin, Missouri and Arkansas. Master of Science (Biology), MSU, 2007, (**Summer Research Fellowship**) Present position: Ecologist, Arkansas Department of Environmental Quality, Little Rock.
- Kelli Dickerson (2005-08): Zooplankton in flowing waters. Master of Science (Biology), MSU, 2008. Present position: Environmental Scientist, Leigh Environmental, Springfield.
- David Simpson (2004-05): Vertical migration of reservoir zooplankton: responses to fish cues and turbidity. (**Summer Research Fellowship**) (did not complete degree)
- Alyson Bellar (2003): Eutrophication and plankton dynamics in a reservoir. (did not complete degree)
- Kim Medley (2002-04): Zooplankton species composition and diversity in floodplain ponds: effects of flooding and local site characteristics. Master of Science (Biology), MSU, 2004. (**Summer Research Fellowship**) Present position: Associate Director, Tyson Biological Station, Washington University. (Ph.D. 2012, University of Central Florida)
- Jeremy Bounds (2002): Impacts of snail grazing and nutrient load on the abundance and composition of algae communities. (did not complete degree)
- Catherine Wooster-Brown (2000-02): Biomonitoring stream disturbance: comparison of responses by macroinvertebrate and meiofauna communities. Present position:

- Environmental Scientist, U.S. Environmental Protection Agency. (did not complete degree)
- Tina Tamme Hopper (2000-02): Environmental limits to invasion of ponds by *Daphnia lumholtzi* Sars. Master of Science (Biology), MSU, 2002. (**Summer Research Fellowship, Best paper award**) Present position: Laboratory Supervisor, MSU.
- Mark Penticuff (1999-02): Biomonitoring of stream water quality: comparative sensitivities of macroinvertebrate indices and leaf decomposition rates. Master of Science (Biology), MSU, 2002. Present position: Science Teacher, Springfield Public Schools.
- Kristen Pattinson (1999-2001): Blue-green algae and the seasonal succession of *Daphnia*. Master of Science (Biology), MSU, 2001. (**Summer Research Fellowship, Sigma Xi award, Best paper award**). Present position: Water Pollution Permitting and Assistance Unit Chief, Missouri Department of Natural Resources.
- Lori Soeken Gittinger (1996-98): The effect of turbidity on the distribution and life history of river zooplankton. Master of Science (Biology), MSU, 1998. Present position: Research Specialist, Illinois Natural History Survey, Havana, IL.
- Jennifer Cacka Graham (1996-98): Competition between exotic and native cladocerans. Master of Science (Biology), MSU, 1998. (**Boritzki Award for MSU outstanding graduate student, Sigma Xi Award**). Present position: Research Scientist, U.S. Geological Survey, Lawrence, KS. (Ph.D. 2004)
- Matt Eisenbacher (1995-98): Effects of the exotic cladoceran *Daphnia lumholtzi* (Sars) on the growth rate and prey selection of bluegill sunfish (*Lepomis macrochirus* Rafinesque). Master of Science (Biology), MSU, 1998. (**Summer Research Fellowship, Sigma Xi Award, Missouri chapter of American Fisheries Society Best talk award**). Present position: Environmental Scientist, Leigh Environmental, Inc., Springfield, MO.
- Jeff Wilson (1995): Competition between exotic and native cladocerans. (**Summer Research Fellowship**) (did not complete degree.)
- David Wright (1995): Zooplankton community diversity in riparian wetlands. (did not complete degree.)
- Anna Mooney (1993-94): Impacts of an exotic zooplankter on native communities. (did not complete degree.)
- Robin Hurtubise Calfee (1993-96): Effects of UV-B radiation on freshwater invertebrates. Master of Science (Biology), MSU, 1996. Present position: Research Biologist, US Geological Survey, Columbia, MO.
- Jocelyn Korsch (1992-97): Biomonitoring a stream impacted by wastewater discharges using macroinvertebrate diversity and bioassays. Master of Science (Biology), MSU, 1997.

**(Missouri chapter of American Fisheries Society Best thesis award)** Present position:  
Park Naturalist, Missouri Department of Natural Resources.

Robert Schulz (1991-96) The Central Stoneroller, *Campostoma anomalum*, as an indicator of heavy metal contamination, using otolith age and growth analysis. Master of Science (Biology), MSU, 1996. Present position: Fisheries Biologist, Missouri Department of Conservation.

Margaret Klass (1991-92): Effects of genetic variation in life history responses to the outcome of toxicology tests. (did not complete degree.)

Frederick Dry (1990-92): Effects of odonate predation on a littoral prey community. Master of Science (Biology), MSU, 1992. Present position: Assistant Professor, Arkansas State University. (Ph.D. 1998, University of Arkansas)

Katherine Koontz Perkins (1990-92): Effects of landfill leachate on the behavior, feeding rate, and growth rate of the prosobranch snail *Elimia potosiensis*. Master of Science (Biology), MSU, 1992. Present position: Dean of Academic Services, Ozarks Technical Community College.

#### **UNDERGRADUATE RESEARCH STUDENTS**

2015 – Jim Miazga (U.Wisc.-Stevens Point), Joe Bevington (U. Wisconsin-Madison)  
2014 - Kara Andres, Jim Miazga (U.Wisc.-Stevens Point), Nick Winter (U.Minn-Duluth)  
2013 – Chris Winter (U. Oregon), Erick Fruehling (U. Wisconsin)  
2012 - Lindsey Bruckerhoff (**publication\*<sup>1</sup>**), Lauren Bansbach, Valerie Jones, Adrienne Gemberling (Lebanon Valley College, Pennsy., **publication**)  
2011 – Lindsey Bruckerhoff, Lauren Bansbach, Casey Dimond, Meghan Lenhardt (**publication**)  
2010 - Sam Christel (U. Wisconsin), Meghan Lenhardt  
2009 - Cory Olsen (U. Wisconsin), Laura McElroy  
2008 - Trisha Riggs  
2007 - Erin Hutchison  
2006 - Gina Botello  
2004-05 - Elissa Dey (**web site**)  
2003 - Mary Litvan (honors), Maria Posada  
2002 - Judy Allen  
2001 - Jeremy Bounds  
2000 - Rick Stennett  
1999 - Rebecca Goedecker, Julie Biebel  
1998 - Kris Bueter  
1997-99 - Kristen Pattinson (NSF-REU, **publication**)  
1997 - Danelle Boeckmann (NSF-REU)  
1996-97 - Allison Hickman (NSF-REU)  
1996-97 - Jennifer Stelzleni (NSF-REU, **publication**)  
1995 - Matt Eisenbacher (**publication, web site**)  
1994-95 - Gwen Korn, Brian Berkner, Dana Little

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<sup>1</sup> \* All publications peer reviewed.

1993-94 - Kendra Kimberly  
 1992-93 - Barrie Talbott (**publication**).  
 1991 - Suzanne Lawrence, Kelly Seay, Cay Carter, John Niedzwiecki (**publication**).  
 1990 - Alexis Howell, Kelly Frey, Robert Woodward

**OTHER DIRECTED INDEPENDENT STUDY**

K. Medley: GIS analysis of flood frequencies in a reservoir floodplain (2003)  
 M. Penticuff: Stream ecology (2001)  
 T. Gaston: GIS-based spatial analysis of dispersing species (1996)  
 R. Farquhar: Sublethal impacts of landfills on snails (1994)  
 R. Farquhar: Distribution and ecology of an exotic cladoceran (1993)  
 R. Farquhar: Growth and ecology of odonates (1992)  
 K. Koontz: Biology of snails (1991)

**SERVICE (since 1989)**

**PROFESSIONAL SOCIETIES – EDITORIAL AND REVIEWS**

Associate Editor, *Hydrobiologia*, 2009-**present** (handle ca. 2 new papers per month)  
 Associate Editor, *Functional and Applied Limnology*, 2009-11  
 Associate Editor, *Ecology*, 2001-04  
 Journal peer reviewer (ca. 6 per year); journals served 2004-13:

<i>Archiv für Hydrobiologie</i>	<i>Hydrobiologia</i>
<i>Biological Invasions</i>	<i>Inland Waters</i>
<i>Can. Journal of Fisheries and Aquat. Sci.</i>	<i>Journal of Biosciences</i>
<i>Conservation Biology</i>	<i>Journal of Great Lakes Research</i>
<i>Diversity and Distributions</i>	<i>Journal of Plankton Research</i>
<i>Ecography</i>	<i>Lake and Reservoir Management</i>
<i>Ecology</i>	<i>Limnology and Oceanography</i>
<i>Environmental Conservation</i>	<i>Marine Biology</i>
<i>Freshwater Biology</i>	<i>Oikos</i>
	<i>Southwestern Naturalist</i>

Grant reviewer (ca. 1 per year):  
 National Science Foundation  
 Austrian Science Fund  
 Marsden Foundation (NZ)  
 Czech Academy of Sciences

**OTHER PROFESSIONAL SERVICE (gratis)**

Advisory panel: National Great Rivers Research and Education Center, Grafton, Illinois (2010)  
 Book review (*Limnology*, by Stanley Dodson) for the author (2006)  
 External reviewer, tenure and promotion:
 

- William Perry, Illinois State University (2016)
- Donna Kashian, Wayne State University (2013)
- Andy Dzialowski, Oklahoma State (2012)
- Elizabeth Walsh, Texas-El Paso (2007)
- Howard Riessen, SUNY-Buffalo (2006)

- Frank Wilhelm, Southern Illinois University (2006)
- Yuewen Huang, University of Missouri-Rolla (2005)
- Donn Branstrator, University of Minnesota-Duluth (2005)
- Jeffrey Jack, University of Louisville (2003)

External reviewer for promotion (to GS 14): Ted Angradi, US EPA (2010)

External examiner of Ph.D. thesis:

- Nathan Ning, La Trobe University, AUSTRALIA (2008)
- Terrie Finston, University of Western Australia

Professional meetings, organizer of meeting:

- Great Plains Limnologists, Annual meeting host, Springfield, Missouri (2004)
- White River Basin Water Quality Forum, Steering committee & organizer of technical sessions (2000, 2001)

Professional meetings, ASLO, special session organizer: 2009, 2010

Professional meetings, chaired technical sessions: 1992, 1995, 1996, 1999, 2001, 2013

- International Conference on Challenges in Aquatic Sciences, Keelung, Taiwan, 2013
- American Society of Limnology and Oceanography, Annual Meeting, 2013 (minorities mentor)

Professional societies, award judge, outstanding publication by a graduate student:

- ESA (2007)
- ESA (2001)
- American Fisheries Society (1998)

Professional meetings, ASLO minority student mentor: 1996, 1998, 2013

Search committee for aquatic biologist (external member), National Park Service (2004)

Teaching workshop: effective presentations, Trout Lake Station (2012-2015)

Zooplankton identifications for external researchers (ca. 2 per year)

Zooplankton techniques workshop (2004)

## **UNIVERSITY COMMITTEES**

Graduate Council (2010-2011)

Faculty-student judicial commission, chair (2007-09)

Scholarship (2003-07)

Sponsored programs advisory committee (2003-07)

Budget and priorities (UPAC) (1996-98)

Public affairs colloquium (1996-97)

Peer evaluation (Senate, *ad hoc*) (1997)

Graduate Assistantships reallocation (*ad hoc*) (1996-97)

Faculty grants (1993-95)

Grants liaison (1993)

## **OTHER UNIVERSITY SERVICE**

“Aqua-pod” proposal, with R. Pavlowsky and J. Greene (2004)

Bull Shoals Field Station: Founder (1996-1999) and first Director (1999-2002)

Graduate Student Forum presentation on “Process of research” (1997)

Ozarks Public Health Institute, proposing short courses for public health workers (2005-06)

Presidential Scholars interviews (yearly, 2005-2015)

Water quality colloquium panelist (2007)

## **COLLEGE COMMITTEES**

Biology Department Head Search (2004-05)  
Budget (2010-2015)  
College Council (2007-09)  
CNAS Dean Search (2005-06)  
Field station (1997-2009, chair 1997-2002)  
Ozarks Environmental and Water Resources Institute advisory board (2004-07)  
Personnel (2010-2016), chair (2012-13)  
Roles and rewards (2003, 2004-chair)  
Science and Technology Center grant, (*ad hoc*, 2003)  
Scholarship (1993-94, 1995-96)  
Scholastic Appeals (1991-93, 2002, 2006-09)

## **DEPARTMENTAL COMMITTEES**

Wildlife Biologist search (2013-14)  
Promotion and tenure guidelines, *ad hoc* (2013)  
Microbiologist search, chair (2011-12)  
Research Specialist search (2012)  
Roles and rewards, chair (2008-09)  
Boater safety, *ad hoc* (2008)  
Graduate program (1990-92, 2007-15)  
Seminars, chair (2007-09, 1991-1995)  
Web page committee (2006-2008)  
Cell Biologist faculty search (2005-06)  
Curriculum (1993-2009)  
Computer (1989-98)  
Lab supervisor roles (*ad hoc*, 2003)  
Cell Biologist faculty search (chair) (2000-01)  
Plant Ecologist faculty search (1998)  
Curriculum review, Ecology and Evolution (*ad hoc*) (1998)  
Biology field station (chair) (1996-97)  
Scholarship (1997-98)  
Curriculum review (*ad hoc*) (1993)  
Anatomist faculty search (1993)  
Recruitment (chair) (1990-91)  
Fisheries search (chair) (1991)  
Graduate (1990-91)  
Faculty development (1990-91)  
Budget (1989-90)

**GRADUATE STUDENT COMMITTEES (all thesis option)**

<u>Degree year</u>	<u>Student</u>	<u>Thesis topic area</u>	<u>Major advisor</u>
2016	Kathryn Martin	Mussels and water quality	Barnhart
(did not finish)	Mike Martin	Mussel host interactions	Barnhart
2015	Adam Mulling	Sediment chemistry	Pavlovsky (GGP)
2015	Kalie Somerville	Microbial ecology	Schweiger
2014	Loring Bullard	Stream water quality	Pavlovsky (GGP)
(did not finish)	Caitlin Wilhelm	Feeding and growth rates (clams)	Barnhart
2014	Robert Shields	Fish growth rates in big rivers	Beckman
2014	Joe Johnson	Trout impacts on fish communities	Beckman
2013	Madelyn Pletta	Toxicology (mussels)	Barnhart
2013	Nathan Light	Coral habitat specificity (fish)	Beckman
2011	Megan Bradley	Physiology and ecology (mussels)	Barnhart
2010	Bailey Pearson	Biomonitoring stream quality (fish)	Beckman
2010	Rebecca Brondel	Predator-prey (crayfish-mussels)	Barnhart
2009	Mike Pillow	Environmental toxicology (mussels)	Barnhart
2009	Rick Sander	Population genetics (plants)	Heywood
2009	Andrea Crownhart	Conservation biology (mussels)	Barnhart
(did not finish)	Kevin Walker	Invasive species (crayfish)	Beckman
2008	Jennifer Duzan	Feeding ecology (mussels)	Barnhart
(did not finish)	Aaron Walker	Biomonitoring stream quality (fish)	Beckman
2008	Megan Ladd	Molecular systematics(plants)	Bowe
2008	Dylan Allen	Environmental education	J. Greene
2008	Janice Hinsey	Biomonitoring stream quality (fish)	Beckman
2008	Melissa Dean	Reproductive physiology (horses)	Webb (AG)
(did not finish)	Chris Garrison	Behavioral ecology	Mathis
(did not finish)	Russ Johnson	Stream ecology	Pavlovsky (GGP)
2007	Zac Beusink	Conservation biology (mussels)	Barnhart
2007	Curtis Klotz	Stream ecology (fish)	Beckman
2006	Tyler Cribbs	Conservation biology (fish)	Beckman
2006	Dave White	Water quality	Pavlovsky (GGP)
2006	Mike Kromrey	Biomonitoring (fish)	Beckman
2006	Jeremy Risley	Fisheries management	Beckman
(did not finish)	Brandy Williamson	Foraging ecology (snakes)	B. Greene
(did not finish)	Andy Crow	Behavioral ecology	Mathis
(did not finish)	Jeff Gray	Water quality	Pavlovsky (GGP)
2005	Brianna Kaiser	Conservation biology (mussels)	Barnhart
(did not finish)	Mike Hubbard	Stream ecology	Pavlovsky (GGP)
2004	D.J. Wurglitsch	Geochemistry	Mantei (GGP)
(did not finish)	Stacy Scranton	Chemistry	Biagioni (CHM)
2004	Lisa Lehnhoff	Turtle ecology	B. Greene
2003	Susan Licher	Geochemistry	Pavlovsky (GGP)
2003	Shane Dunnaway	Fish ecology	Beckman
(did not finish)	Jerry Kiger	Turtle ecology	Moll
(did not finish)	Peta Elsken-Lacy	Physiological ecology	Tomasi
(did not finish)	Lyn Kelsay	Fish ecology	Beckman

2002	Melissa Shiver	Conservation biology (mussels)	Barnhart
2002	Fawn Kirkland	Fish ecology	Beckman
2002	Angela Delp	Physiological ecology	Barnhart
2002	Jonathan Shearer	Science Education	Manivannan (PHY)
2002	Tricia Tannehill	Geochemistry	Pavlovsky (GGP)
2000	Mike Baird	Conservation biology (mussels)	Barnhart
2000	Mike Dickerson	Theoretical population genetics	Heywood
(did not finish)	Wally Luther	Fish ecology	Beckman
2000	Shanda King	Plant population biology	Heywood
2000	Jennifer Moody-Weis	Plant pollination biology	Heywood
(did not finish)	Carla Hinton	Water quality	Rhodes
1999	Dawn Ford	Turtle ecology	Moll
1999	David Howlett	Fish ecology	Beckman
1998	Darby Hansen	Physiological ecology	Barnhart
1997	Bryan Yates	Biogeography of insects	Jensen
1997	Erich Harris	Water quality	Rhodes
1997	Karla Rues	Reproductive physiology	Tomasi
1997	Andrew Roberts	Conservation biology (mussels)	Barnhart
1996	Brenda Jones	Conservation genetics (plants)	Heywood
1996	Kay Goddard	Behavior of fishes	Mathis
1996	Lisa Kiner	Ecology of stream fishes	Beckman
(did not finish)	Terri Gaston	Geographic information systems	Castillon (GGP)
1995	Wyatt Hoback	Physiological ecology	Barnhart
1994	Kelly Derrick	Predator-prey ecology	Moll
1994	Cay Carter	Population genetics of plants	Heywood
1994	Gwen Waller	Conservation genetics (plants)	Heywood
1992	Anthony Hampton	Population genetics of plants	Heywood
1991	Mark Kluhsman	Diet analysis of salamanders	Wilkinson
(did not finish)	Jeff Burchler	Population ecology of crayfish	Moll
1990	Chris Field	Ecology of freshwater algae	Rhodes

### **OTHER DEPARTMENTAL SERVICE**

Advisor (undergraduate honors, ca. 25 advisees)  
 Biology computer lab, coauthor on NSF proposal and setup of new lab (1989)  
 Biology Graduate Student Association, faculty mentor (1994-99)  
 Faculty mentor (Mark Brunell, 2000-02)  
 Master Advisor Workshop (2003)  
 Seminar speakers host (ca. 1 per year)  
 Statistical consulting (ca. 2 visits per year)

### **UNIVERSITY AND COMMUNITY SERVICE – PUBLIC PRESENTATIONS**

Public presentations on invasive species:

- Minocqua-Kauwagesaga lakes association, Minocqua, Wisconsin (2015)
- Long Lake homeowner's association, Mercer, Wisconsin (2014)
- CNAS public lecture, Missouri State University (2013)
- Retired business leaders, Minocqua, Wisconsin (2011)



- Ozark Mountain Paddlers, Springfield, Missouri (2011)
- Trout Lake homeowner's association, Boulder Junction, Wisconsin (2010)

Television interviews:

WJFW (Rhinelander, Wisconsin), Newswatch 12 (Summer 2010)

KY-3 News (1993)

SMSU-30 (1997, 1999, 2000, 2002)

Radio interviews: KSMU (1994, 1997, 1998, 1999, 2000, 2001, 2010)

Expert panel presentation (on water quality issues):

- Focus the nation conference, Missouri State University (2008)
- Upper White River Basin Watershed Compliance Task Force, Missouri Attorney General's office, Springfield, Missouri, (2004)
- Interim Committee on Water Quality Issues, Missouri House of Representatives, Springfield, Missouri (2003)
- English week, MSU (2003)

Commentary (Ozarks Voices), "DDT", Springfield News Leader, December 11, 2002

### **COMMUNITY SERVICE (science related)**

Open house, UW Trout Lake Station, Boulder Junction, Wisconsin (yearly 2011-15)

"Schoolyard" winter limnology activity days at Trout Lake Station (2010)

Technical committee, Little Sac Watershed Management plan, Watershed Committee of the Ozarks (2008-10)

Open house, MSU Bull Shoals Field Station, (1999-2005)

Springfield Science Fair Judge (1990-2004)

Advisor for Science fair students (1995, 1999, 2000, 2003)

Science Olympiad (2000, 2001)

K-12 schools presentations (aquatic ecology) (1994, 1996)

### **COMMUNITY SERVICE (other)**

Springfield Mid-America Singers (2001-**present**)

Holy Trinity Church cantor/soloist (1999-**present**)

Holy Trinity Church choir (1997-**present**)

Holy Trinity Church garden ministry (2016-**present**)

Springfield Victory Garden/Ozarks Food Harvest (2017-**present**)

KU Audio Reader (2017-**present**)

MSU Community Chorale (1999-2001)

Pet Therapy of the Ozarks (1997-2002)

Habitat for Humanity (1996-97)

Revised July 2017